

Nutrimine Performance Evaluation: Sunflowers Bulgarian Ministry of Agriculture and Union of Oil- Protein Crops

Objective:

Evaluate Nutrimine on dry land production. Bulgaria is a leading producer of sunflowers with over 1.5 million acre currently in production. A commercial field trial was conducted in 2013 with the Bulgarian Ministry of Agriculture.

Scientific Method:

The test was performed under field conditions and were constructed using “long plot” methods on sunflower plots in Byala Municipality. A total of 1.5 acres of Tristan sunflower variety, *Helianthus annuus* L., was treated by means of foliar application at the 3-4 leaf stage. The sowing rate was 20,040 plants/acre. The harvested plots received 4 repetitions of product, 1,700 per sq ft.

Nutrimine was applied in two sprayings at 12 day intervals at the rate of 0.15 GPA. The first application was applied when the plant was at the 3-4 leaf stage. Two months after the second spraying the plants were at budding stage and the stem height was reported. Measurements were taken from the control plot as well as the plot treated with GrowGreen. An average stem height of 50 specimens per plot was recorded. Specimens were collected in a succession of every 15 plants.

The seed yield was also reported from both plots using an agricultural technique typical to regional methods.

The results of the trail are reported as mean values and show a significant advantage of the crop treated with.

Results and Conclusions:

	Stem Height in	Height $\Delta\%$	Seed Yield- 1070 sq ft, lb	Seed Yield $\Delta\%$
Control	43.30 in.	0	32.6 lb	0
Nutrimine	50 in.	15%	43.43 lb	33%

The results of the trial show that the crop treated with Nutrimine yielded a stem height 15% higher than the control crop. Additionally, the crop treated with Nutrimine produced a seed yield 33% greater than the control.